Space Policy

Volume 14 (1998)

Volume Contents and Author Index

Space Policy

SPACE POLICY covers space use, activities and developments in their industrial, economic, political, legal and social contexts. The editors of SPACE POLICY invite full-length articles or viewpoint pieces. Information on work in progress, publications and meetings is welcomed. Rejoinders critically examining articles published in the journal are encouraged. Please submit three copies of your manuscript to Frances Brown at the address below. Views expressed in the journal are not necessarily those of the editors or members of the editorial board.

EDITOR
Frances Brown
Seabank, Turnberry Road
Maidens
Ayrshire
UK, KA26 9NN

NORTH AMERICAN EDITOR
Professor John Logsdon
Stuart Hall
2013 G ST RM 161
Washington, DC 20006
USA

EUROPEAN EDITOR
Dr Alain Dupas
University of Paris and CNES
France

INTERNATIONAL EDITORIAL BOARD

Professor Oleg Alifanov
Director General, COSMOS International Centre for Advanced Studies, Moscow, Russia

Professor Dr Karl-Heinz Böckstiegel
Director of the Institute of Air and Space Law, University of Cologne, Germany

Dr Richard Boudreault
Technologies Aérospatiales, Montreal, QC, Canada

Professor Carl Q. Christol
Department of Political Science, University of Southern California, CA, USA

Professor J.L. Culhane
Director, Mullard Space Science Laboratory, University College, London, UK

Dr Eduardo D. Gaggero
Director General, Centro de Investigacion y Difusion Aeronautico-Espacial, Montevideo, Uruguay

Roy Gibson
Montpellier, France

Peter E. Glaser
Vice-President, Arthur D. Little Inc., Cambridge, MA, USA

Dr Tomifumi Godai
Executive Director, NASDA, Tokyo, Japan

Dr David Green
Oxford, UK

Dr Anders Hansson
Coordinator, Center for Space Industrialization Research, Lisbon, Portugal

John A. Holt
Stevenage, UK

Dr Bhupendra Jasani
Senior Research Fellow, Kings College, London, UK

N. Jasentuliyana
Office for Outer Space Affairs, United Nations, Vienna, Austria

Jeff Kingwell
Cooperative Research Centre for Satellite Systems, Canberra, Australia

Professor W. Kröll
Chairman, DLR, Cologne, Germany

Molly Macauley
Fellow, Resource for the Future, Washington, DC, USA

Dr John McLucas
External Tanks Corporation, USA

Dr Wendell Mendell
NASA Johnson Space Center, Houston, TX, USA

Professor Johannes Ortner
International Space University, Strasbourg, France

Professor Mazlan Othman
Director General, Space Science Studies Division, Kuala Lumpur, Malaysia

Dr Joseph Pelton
Interdisciplinary Telecommunications Program, University of Colorado, Boulder, CO, USA

Dr Lubos Perek
Czech Academy of Sciences, Prague, Czech Republic

Dr He Qizhi
Department of Treaty and Law, Ministry of Foreign Affairs, Beijing, People's Republic of China

Dr Y.S. Rajan
Senior Advisor (Technology), Confederation of Indian Industry, New Delhi, India

Professor Harry O. Ruppe
Technische Universitat Munchen, Germany

Marcia S. Smith
Library of Congress, Washington, DC, USA

Professor Heinz Stoewer
Space Associates SAC, Augustin, Germany

Dr Lucie Stojak
International Space University, Illkirch, France

Dr Maxim Tarasenko
Centre for Arms Control, Energy and Environmental Studies, Moscow Region, Russia

Professor C. Voûte
Consultant, Gradoman, Bankja, Bulgaria

Dr Ray A. Williamson
Space Policy Institute, George Washington University, DC, USA

Dr Malcolm G. Wolfe
Senior Staff Engineer, The Aerospace Corporation, Los Angeles, CA, USA

Peter Wright Wood
Consultant, Edenton, NC, USA

ELSEVIER

Space Policy

Space Policy 14 (1998) III–V

Contents of Volume 14

Number 1

Viewpoints 1 American space hegemony: accident or design?
P. Lawrence & A. Hansson

5 Protecting the space environment
Are we doing enough?
M. Williamson

9 Collective trusteeship for near space: the case for UNNESA
G. B. Dietrich & W. C. Goldstein

15 Teledesic – the beginning of the space infrastructure of the future
A. Hansson

Papers 17 Implications of previous space commercialization experiences for the re-usable launch vehicle
R. M. Obermann & R. A. Williamson

27 Remote sensing of Earth resources: emerging opportunities for developing countries
H. George

39 Competitiveness of the European space industry. Lessons from Europe's role in NATO
V. Zervos

Reports 49 Bridging space and society with technology transfer
International Space University, 1997 Summer Session, Transfer of Technology Design Project Team

61 Inflection points in the development of energy in space
R. Boudreault

65 Book reviews

73 Calendar

Number 2

Viewpoints 75 SETI and the law: what if the search succeeds?
F. Lyall

79 Space tourism: a response to continuing decay in US civil space financial support
T. Rogers

Papers 83 Satellite communications and the Internet: implications for the outer space treaty
L. F. Martinez

0265-9646/98/$ see front matter © 1999 Elsevier Science Ltd. All rights reserved.

89 International coordination in the era of faster, better, cheaper
L. R. Shaffer

95 Will space run out of space? The orbital debris problem and its mitigation
D. Rex

107 Helios 2—myth or reality?
A. McLean & A. Swankie

115 Technology control regimes and the globalization of space industry
A. J. Aldrin

123 Book reviews

127 Publications

129 Calendar

Number 3

131 Editorial

Viewpoint 133 A historical perspective on space
M. Martin-Smith

Papers 137 Why space science and exploration benefit everyone
A. Ocampo, L. Friedman & J. Logsdon

145 Future spacelift projections
R. F. Johnson & P. L. Smith

153 The origin of the smaller, faster, cheaper approach in NASA's solar system exploration program
S. A. Roy

173 Policy issues in communicating with ETI
M. A. G. Michaud

179 Expanding global access to civilian and commercial remote sensing data: implications and policy issues
G. J. Tahu, J. C. Baker & K. M. O'Connell

Reports 189 An international look at global navigation satellite systems
R. J. H. Barnes & R. Gibson

193 Teaching space politics and policy: an overview and evaluation of student attitudes
J. P. Lester, E. Sadeh & W. Z. Sadeh

199 Book reviews

207 Publications

209 Calendar

Number 4

Viewpoint	211	Thoughts on European GNSS options *W. von Kries*
Papers	215	US–European collaboration in space science *National Research Council & European Science Foundation*
	223	Disaster assessment and satellite communication: on the threshold of a new era *V. Garshnek, K. Shinchi & F.M. Burkle Jr.*
	229	Remote sensing in the information age *A.A. Abiodun*
	239	Commercializing the International Space Station: current US thinking *J.M. Logsdon*
Reports	247	Space Agency Forum prepares UNISPACE III *K.-U. Schrogl*
	251	Missions to the outer solar system and beyond *A. Hansson*
	253	Book Reviews
	259	Documentation
	261	Calendar

ELSEVIER

Space Policy

Space Policy 14 (1998) VII

Author Index to Volume 14

Abiodun A.A., 229
Aldrin A.J., 115

Baker J.C., 179
Barnes R.J.H., 189
Boudreault R., 61
Burkle Jr. F.M., 223

Dietrich G.B., 9

European Science Foundation, 215

Friedman L., 137

Garshnek V., 223
George H., 27
Gibson R., 189
Goldstein W.C., 9

Hansson A., 1, 15, 251

International Space University, 49

Johnson R.F., 145

Lawrence P., 1
Lester J.P., 193
Logsdon J., 137
Logsdon J.M., 239
Lyall F., 75

Martin-Smith M., 133
Martinez L.F., 83
McLean A., 107
Michaud M.A.G., 173

National Research Council, 215

O'Connell K.M., 179
Obermann R.M., 17
Ocampo A., 137

Rex D., 95
Rogers T., 79
Roy S.A., 153

Sadeh E., 193
Sadeh W.Z., 193
Schrogl K.-U., 247
Shaffer L.R., 89
Shinchi K., 223
Smith P.L., 145
Swankie A., 107

Tahu G.J., 179

von Kries W., 211

Williamson M., 5
Williamson R.A., 17

Zervos V., 39

0265-9646/98/$-see front matter © 1999 Elsevier Science Ltd. All rights reserved.
PII: S0265-9646(99)00002-8